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### Complex Analysis - ku

Complex Analysis Version 1.54 Matthias Beck Gerald Marchesi Department of Mathematics Department of Mathematical Sciences San Francisco State University Binghamton University (SUNY) San Francisco, CA 94132 Binghamton, NY 13902 mattbeck@sfsu.edu marchesi@math.binghamton.edu

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Chapter 1 The Basics 1.1 The Field of Complex Numbers The two dimensional R-vector space  $\mathbb{R}^2$  of ordered pairs  $z = (x,y)$  of real numbers with multiplication  $(x_1,y_1)(x_2,y_2) := (x_1x_2 - y_1y_2, x_1y_2 + x_2y_1)$  is a commutative field denoted by  $\mathbb{C}$ . We identify a real number  $x$  with the complex number  $(x,0)$ . Via this identification  $\mathbb{C}$  becomes a field extension of  $\mathbb{R}$  with the unit

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